

**To:** Way, Steven[way.steven@epa.gov]  
**From:** Powell, Greg  
**Sent:** Sat 8/29/2015 12:14:20 PM  
**Subject:** Re: Copper Env - Dave McCarthy : GK Water Quality Data

Steve:

I would take samples from the Red Bonita ponds since those samples would represent lime addition .

Sent from my iPhone

On Aug 29, 2015, at 12:53 AM, Way, Steven <[way.steven@epa.gov](mailto:way.steven@epa.gov)> wrote:

Dave,

The solids sampled for the treatment system analysis were collected from a settling pond (Pond 1) that has been impacted now by a solids removal / dewatering system – additional caustic and flocculent addition. So, those solids may not be representative of the system output at this time. I recommend not doing any analyses on that material.

When you arrive onsite, we'll make a plan to obtain a solids sample.

I'll look forward to your arrival Sunday.

Steve

Steven Way

Federal On-Scene Coordinator

Emergency Response Unit

US EPA - Region 8

1595 Wynkoop Street

Denver, CO 80202

Office: 303-312-6723

**From:** Dave McCarthy [<mailto:dave.mccarthy@copperenv.com>]  
**Sent:** Friday, August 28, 2015 3:42 PM  
**To:** 'Petri, Elliott'; 'Christner, Jan'; Way, Steven; [jim.jonas@copperenv.com](mailto:jim.jonas@copperenv.com)  
**Cc:** Powell, Greg; Myers, Craig; Dhieux, Joyel; Guy, Kerry  
**Subject:** RE: Copper Env - Dave McCarthy : GK Water Quality Data

Elliott:

Thank you for the very quick response.

Dave

Dave McCarthy

Copper Environmental Consulting

406 East Park Avenue, Suite 2

Anaconda, MT 59711

Phone (406) 563-2700 ext. 302

Fax (406) 563-2701

Mobile (406) 560-2719

email: [dave.mccarthy@copperenv.com](mailto:dave.mccarthy@copperenv.com)

[www.copperenv.com](http://www.copperenv.com)

**From:** Petri, Elliott [<mailto:Elliott.Petri@WestonSolutions.com>]  
**Sent:** Friday, August 28, 2015 3:38 PM  
**To:** Dave McCarthy; Christner, Jan; 'Way, Steven'; [jim.jonas@copperenv.com](mailto:jim.jonas@copperenv.com)  
**Cc:** 'Powell, Greg'; 'Myers, Craig'; 'Dhieux, Joyel'; [guy.kerry@epa.gov](mailto:guy.kerry@epa.gov)

**Subject:** RE: Copper Env - Dave McCarthy : GK Water Quality Data

We have collected ~10 gallons of mine water and ~2 gallons of sludge. We sent them to be shipped and pending drop time should be on their way this evening to:

Attn: Dave McCarthy

Copper Environmental Consulting

406 East Park Avenue, Suite 2

Anaconda, MT 59711

Thank you,

Elliott

Elliott Petri, PE

Weston Solutions, Inc.

1435 Garrison St, Ste 100

Lakewood, CO 80215

Ph: 303-729-6156

Cell: 719-216-2754

Fax: 303-729-6101

**From:** Dave McCarthy [<mailto:dave.mccarthy@copperenv.com>]

**Sent:** Friday, August 28, 2015 3:29 PM

**To:** Christner, Jan <[Jan.Christner@WestonSolutions.com](mailto:Jan.Christner@WestonSolutions.com)>; 'Way, Steven' <[way.steven@epa.gov](mailto:way.steven@epa.gov)>; [jim.jonas@copperenv.com](mailto:jim.jonas@copperenv.com)

**Cc:** 'Powell, Greg' <[Powell.Greg@epa.gov](mailto:Powell.Greg@epa.gov)>; Petri, Elliott <[Elliott.Petri@WestonSolutions.com](mailto:Elliott.Petri@WestonSolutions.com)>; 'Myers, Craig' <[Myers.Craig@epa.gov](mailto:Myers.Craig@epa.gov)>; 'Dhieux, Joyel' <[Dhieux.Joyel@epa.gov](mailto:Dhieux.Joyel@epa.gov)>; [guy.kerry@epa.gov](mailto:guy.kerry@epa.gov)

**Subject:** RE: Copper Env - Dave McCarthy : GK Water Quality Data

Jan:

Thank you for the information, it will help tremendously in getting us up to speed. I have included Jim Jonas on this email, as he may have some additional data requests.

Thanks again,

Dave

Dave McCarthy

Copper Environmental Consulting

406 East Park Avenue, Suite 2

Anaconda, MT 59711

Phone (406) 563-2700 ext. 302

Fax (406) 563-2701

Mobile (406) 560-2719

email: [dave.mccarthy@copperenv.com](mailto:dave.mccarthy@copperenv.com)

[www.copperenv.com](http://www.copperenv.com)

**From:** Christner, Jan [<mailto:Jan.Christner@WestonSolutions.com>]

**Sent:** Friday, August 28, 2015 10:46 AM

**To:** Way, Steven

**Cc:** Powell, Greg; Petri, Elliott; Myers, Craig; Dhieux, Joyel; Dave McCarthy; [guy.kerry@epa.gov](mailto:guy.kerry@epa.gov)

**Subject:** RE: Copper Env - Dave McCarthy : GK Water Quality Data

Hi, Dave.

Please see the attached data for the Gold King Mine discharge. The Excel spreadsheet also shows concentrations and % removal from the current pond system.

I am also attaching some potential discharge objectives but these are very draft and decisions regarding effluent limits will be made by people other than me.

Please let me know if you have questions or would like additional information. We can send a bucket of site water if needed.

Jan

Jan Christner

Weston Solutions, Inc.

505-269-1925 (cell)

505-797-1154 (better number to use)

**From:** Way, Steven [<mailto:way.steven@epa.gov>]

**Sent:** Friday, August 28, 2015 10:30 AM

**To:** Christner, Jan

**Cc:** Powell, Greg; Petri, Elliott; Myers, Craig; Dhieux, Joyel; Dave McCarthy

**Subject:** Fwd: Copper Env - Dave McCarthy : GK Water Quality Data

Jan - would you please provide Dave with the GK discharge data and our information on potential temporary discharge / effluent quality objectives. They are providing technical expertise on Lime Addition system set up and operation / optimization.

Please do this ASAP. I will ask that you contact him to be a point of contact on information needs for now - existing data from our sampling, etc. Elliott will provide him the layout for proposed retention ponds at Gladstone.

They will be onsite next week, so it would helpful to get this quickly.

Thank you,

STeve

Sent from my iPad

Begin forwarded message:

**From:** Dave McCarthy <[dave.mccarthy@copperenv.com](mailto:dave.mccarthy@copperenv.com)>

**Date:** August 24, 2015 at 5:55:18 PM MDT

**To:** Steven Way <[Way.Steven@epamail.epa.gov](mailto:Way.Steven@epamail.epa.gov)>

**Subject: Water Quality Data**

Steve:

Thanks for the information during our call this afternoon regarding water treatment system options at the Gold King. I believe we can help you develop a reliable treatment system in a timely manner. As discussed during the call, any water chemistry and acidity titration data would be helpful. In addition, any of the following information would be helpful:

1. a base aerial image of the current site condition;
2. any topography data / CAD files of site;
3. location and size of buildings that could potentially be used; and
4. iron speciation data.

We will be in touch again soon.

Thanks again for the opportunity to help,

Dave

Dave McCarthy

Copper Environmental Consulting

406 East Park Avenue, Suite 2

Anaconda, MT 59711

Phone (406) 563-2700 ext. 302

Fax (406) 563-2701

Mobile (406) 560-2719

email: [dave.mccarthy@copperenv.com](mailto:dave.mccarthy@copperenv.com)

[www.copperenv.com](http://www.copperenv.com)

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.